

CLAIMS

1. Sound-reproducing transducer (60) connected to a printed circuit (50), the transducer (60) having the shape of a hollow cylinder whose cylindrical wall (66) delimits two circular faces: a front face (66c) and a rear face (66d) that are opposed and planar,

the transducer (60) comprising at least one diaphragm (64) for converting electrical signals into sound waves and vice-versa,

the diaphragm (64) being a circular membrane parallel to the front face (66c) and the rear face (66d) of the transducer (60),

the diaphragm (64) delimiting two distinct volumes in the transducer (60):

- the first volume, bordered on one side by the circular face (66c) of the transducer (60) and on the other side by the diaphragm (64), this first volume forming a front acoustic cavity (61), and

- the second volume, bordered on one side by the circular face (66d) of the transducer (60) and on the other side by the diaphragm (64), this second volume forming a rear acoustic cavity (62),

characterized in that said cylindrical wall (66) of the transducer (60) includes at least one perforation (72, 74, 76, 77, 78).

2. Sound-reproducing transducer according to claim 1, characterized in that the perforation (72, 74, 76, 77, 78) forms a hole in the rear acoustic cavity (62) on the cylindrical wall (66) of the transducer (60).

3. Sound-reproducing transducer (60) according to claim 1 or claim 2, characterized in that said circular face (66d) of the transducer (60) includes at least one perforation (72, 74, 76, 77, 78).

4. Sound-reproducing transducer (60) according to any one of the claims, characterized in that said perforation (72, 74, 76, 77, 78) is of substantially rectangular shape.

5. Sound-reproducing transducer (60) according to any one of the preceding claims, characterized in that said perforation (72, 74, 76, 77, 78) has a size approximately one third of the height of the cylindrical wall 69a, 69b.

5           6. Communication terminal comprising a sound-reproducing transducer (60) according to claim 1, characterized in that said cylindrical wall (66) of the transducer (60) includes at least one perforation (72, 74, 76, 77, 78).

10           7. Communication terminal comprising a sound-reproducing transducer (60) according to claim 6, characterized in that said circular face (66d) of the transducer (60) includes at least one perforation (70a, 70b, 70c).